WEB APPLICATION DEVELOPMENT USING NODEJS (Tutorial 1)

Exercise 01

HTML Document:

XMLHttpRequest:

```
let xhr = new XMLHttpRequest();
xhr.addEventListener('load', e => {
    let { response } = xhr;
    ...
```

```
})
xhr.open('GET', url, true);
xhr.responseType = "blob";
xhr.send();
```

Display & download blob:

```
let image = document.getElementById(...)
let { response } = xhr;
let srcBlob = URL.createObjectURL(response);
image.src = srcBlob
imageLink.href = srcBlob
```

Exercise 02

Bootstrap table:

https://www.w3schools.com/bootstrap4/bootstrap_tables.asp

Load by Ajax:

```
let xhr = new XMLHttpRequest();
xhr.addEventListener('load', e => {
    let { response } = xhr;
    ...
})
```

```
xhr.open('GET', SERVER_URL, true);
xhr.responseType = "json";
xhr.send();
```

Load by Fetch:

```
fetch(SERVER_URL)
.then(res => res.json())
.then(json => {
    ...
}).catch(e => {
    console.log(e);
})
```

HTML Document:

```
document.getElementById(...)
document.createElement(...)
parentElement.appendChild(childElement)
```

Exercise 03

Define a Promise method:

```
function loadImagePromise(link) {
  return new Promise((resolve, reject) => {
    return resolve(...)
    ....
  return reject(...)
  });
}
```

Use Promise method:

```
async function loadImage() {
  let data = await loadImagePromise(...)
  image.src = data
  ...
}

loadImagePromise(...)
  .then(data => {
    image.src = data
    ...
  })
```

Exercise 04

Write data object/array into localStorage/sessionStorage:

```
let json = JSON.stringify(obj);
window.localStorage.setItem(key, json);
window.sessionStorage.setItem(key, json);
```

Read data from localStorage/sessionStorage:

```
let json = localStorage.getItem(key);
let obj = JSON.parse(json);
```